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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/059,682 01/29/2002 Mario E. Bran VERTE.076A EXAMINER 34132 COZEN O'CONNOR, P.C. STINSON, FRANKIE L 1900 MARKET STREET ART UNIT PAPER NUMBER PHILADELPHIA, PA 19103-3508 1746

DATE MAILED: 07/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

,	Application No.	Applicant(s)		
Office Action Summary	10/059,682	BRAN		
	Examiner	Art Unit		
	FRANKIE L. STINSON	1746		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).				
Status				
1) Responsive to communication(s) filed on 06 J	<u>une 2005</u> .			
2a) This action is FINAL . 2b) ⊠ This	s action is non-final.			
3) Since this application is in condition for allowa	<i>,</i> —			
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims				
4) Claim(s) 1,2,4-6 and 8-20 is/are pending in the application.				
4a) Of the above claim(s) is/are withdrawn from consideration.				
5)⊠ Claim(s) <u>13 and 15-19</u> is/are allowed.				
6)⊠ Claim(s) <u>1,2,4-6,8,9,12,14 and 20</u> is/are rejected.				
7) Claim(s) <u>10</u> is/are objected to.				
8) Claim(s) are subject to restriction and/o	or election requirement.			
Application Papers	. •			
9) The specification is objected to by the Examiner.				
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached Office	Action or form P	TO-152.	
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 				
3. Copies of the certified copies of the priority documents have been received in this National Stage				
application from the International Bureau (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a list	of the certified copies not receive	ed.		
Attachment(s)				
1) Notice of References Cited (PTO-892)	4) Interview Summary			
2)	Paper No(s)/Mail Da 5) Notice of Informal P		O-152)	
Paper No(s)/Mail Date	6) Other:	a.s ppnoduon (f 1	- · /	

Page 2

Art Unit: 1746

Application/Control Number: 10/059,682

1. The indicated allowability of claims 11, 14 and 20 is withdrawn in view of the newly discovered reference(s) to Barbee et al. (U S. Pat. No. 4,070,167), Satoh (U. S. Pat. No. 5,746,981) Japan 8-318234. Rejections based on the newly cited reference(s) follow.

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 2, 4-6, 8, 9, 11, 12, 14 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lauerhaas et al. (U. S. Pat. No. 6,754,980) in view of Japan'234, Satoh or Barbee et al.

Re claims 1, 11 and 14, Lauerhaas is cited disclosing an assembly for cleaning a thin substrate comprising:

a transmitter (122) positioned above the substrate where a meniscus if liquid is formed between the substrate and transmitter;

a transducer coupled to the transmitter to create a transmission path from the transducer through the substrate that differs from the claims only in the recitation of the at least one of (1) a gap in the transmission path between the transducer and end face of the transmitter, and (2) a recess in the end of the transmitter. The patents to Japan'234, Satoh and Barbee are each cited disclosing in a transmitter being coupled to a transducer, where there is provided at least one of a gap (see fig. 1 in Japan'234, see fig. 11 in Satoh, and see fig. 2 in Barbee) in the transmission path between the

Art Unit: 1746

transducer and end face of the transmitter, and (2) a recess in the end of the transmitter. It therefore would have been obvious to one having ordinary skill in the art to modify the transmitter in Lauerhaas, to be as taught by either Satoh or Barbee for the purpose of providing efficient transmission of wave energy to the transmitter. Re claims 11 and 15, note that Barbee discloses the coupler (bottom part of housing 43). Re claim 20, in view of the corresponding structure, the functional limitations are deemed to be inherent. Re claims 2, Lauerhaas discloses the alignment. Re claims 4 and 9, Lauerhaas discloses the elongated/rod configuration. Re claims 5 and 6, Lauerhaas discloses the liquid source/dispenser. Re claim 8 to have the recess wedge-shaped is deemed to be an obvious matter of design in that the gap as claimed in that the wedge-shaped recess is deemed to the mere substitution of equivalents (see MPEP 2144.06 SUBSTITUTING EQUIVALENTS KNOWN FOR THE SAME PURPOSE). This also applicable to the coupler as claimed in claim 12.

- 4. Claim 10 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 5. Claims 13 and 15-19 stand allowed.
- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Nicoloso et al., Beck et al., Sawyer, Loose et al. and 6,336,976, note the transmitters.
- 7. Applicant's arguments with respect to claims 1, 2, 4-6 and 8-20 have been considered but are most in view of the new ground(s) of rejection.

Art Unit: 1746

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to FRANKIE L. STINSON whose telephone number is (571) 272-1308. The examiner can normally be reached on M-F from 5:30 am to 2:00 pm and some Saturdays from approximately 5:30 am to 11:30 am.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr, can be reached on (571) 272-1700. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

fls

FRANKIE L. STINSON
Primary Examiner
GROUP ART UNIT 1746